

PATENT ABSTRACTS OF JAPAN

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(54) INK JET RECORDER



(57)Abstract:

PURPOSE: To enable high speed printing to be performed and to prevent discharge responsibility of ink, discharge efficiency and discharge stability from decreasing by a method wherein a friction head of a first ink part is made less than a friction head of a second ink path.

CONSTITUTION: An ink cartridge 34 for supplementing ink to an ink supply tank 33 supplies ink to a common liquid chamber 30a of a recording head 30 by a supply tube 31 being a first ink path from the ink supply tank 33.

Further, when ink is supplemented, ink can be supplemented to the ink supply tank 33 by applying a chicken feed principle from the ink cartridge 34. Furthermore, a recovery pump 35 to be used in discharge function recovery operation of the recording head 30 is interconnected to the recording head 30 with a circulating tube 32 being a second ink path. Then, a length of the

supply tube 31 is approximate a half of a length of the circulating tube 32, and an inner diameter of the supply tube 31 is equal to an inner diameter of the circulating tube 32. Thereby, a friction head of the supply tube 31 becomes approx. one half of the friction head of the circulating tube 32.